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ADVIA® 560 and 560 AL Hematology Systems

Technical Specifications

Product Specifications

| | |
|------------------------------|---|
| Technology/Parameters | Laser light scatter technology for 5-part WBC differential; impedance method for CBC: WBC (80 µm), RBC, and PLT (70 µm); light absorbance for HGB measurement/26 parameters, including 5-part differential with two histograms and scattergrams for RBC and PLT: BASO, WBC, LYM, MON, NEU, EOS, BAS, LYM%, MON%, NEU%, EOS%, BAS%, RBC, HCT, MCV, RDW-SD*, RDW-CV, HGB, MCH, MCHC, PLT, PCT*, MPV, PDW-SD*, PDW-CV*, P-LCC*, P-LCR* |
| Sample stability | Sample stability is characterized by the absolute and percent difference from the baseline values measured 30 minutes after venipuncture for: WBC, NEU%, NEU, LYM%, LYM, MON%, MON, EOS%, EOS, BAS%, BAS, RBC, RDW, and PLT. For MPV, the baseline is 2 hours after venipuncture. The expected stability is 7 hours from venipuncture. |
| Sample modes/volumes | Manual closed tube/110 µL; manual open tube/110 µL; optional autoloader/110 µL |
| Throughput | 60 tests/hour |

Data Management

| | |
|------------------------|--|
| Database | 100,000-patient storage capacity |
| Quality control | 24 QC lots, separate QC database, Levy-Jennings graphs, bar-code option to load QC target values, and QR code reading for reference data input |
| Multituser mode | Multilevel user modes with individual identification (username, password) |

Workstation

| | |
|-----------------------------------|--|
| Printout | Optional external, Microsoft Windows-compatible printers |
| Optional external keyboard | PS/2 or USB |
| Handheld bar-code reader | Standard |
| User interface | 600 x 800 color graphics, 10.4-inch LCD touchscreen |
| Interfacing capabilities | RS232, USB, Ethernet; multilingual user interface |

Physical Requirements/Room Environment

| | |
|--------------------------|---|
| Electrical power | Dedicated line, voltage selectable for single phase, 100 VAC (6 amps)–240 VAC (3 amps) |
| Frequency | 47–63 Hz |
| Temperature | Operating: 15–30°C |
| Relative humidity | 10–80% (noncondensing) |
| Waste disposal | 10 L or 20 L tracked waste container or direct waste feed into main drainage. Treat as potential biohazard. |

Weight and Dimensions

| | |
|-------------------|--|
| Weight | 35 kg/77 lb |
| Dimensions | 52 (h) x 41 (w) x 49 (d) cm; 20 (h) x 16 (w) x 19 (d) in |

Additional Specifications

| | |
|------------------------------------|--|
| Three cyanide-free reagents | Diluent, Lyse, and Cleaner |
| User languages | Croatian, English, French, Greek, German, Hungarian, Italian, Polish, Portuguese (Brazil), Russian, Spanish (Argentina), Turkish |

Autoloader (optional)

| | |
|------------------------|---|
| Sample capacity | 100 tubes: 10 racks with 10 sample tubes per rack |
| Tubes accepted | Monovette, Vacutainer, Vacuette |
| Bar-code reader | Built-in |
| Mixer | Built-in |
| Cap recognition | Only capped tubes are mixed and processed |

*Parameter not approved for measurement in the U.S.

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| Accuracy | | | | | |
|-----------|----------------------|-------------|-------------------|------------|---------------------|
| Parameter | Normal Mode Criteria | | Evaluation Levels | | Unit |
| | Absolute | Percent (%) | Range Low | Range High | |
| WBC | 0.30 | 6.0 | 0 | 100 | 10 ³ /μL |
| NEU% | 3 | 10.0 | 0 | 100 | % |
| LYM% | 3 | 10.0 | 0 | 100 | % |
| MON% | 3 | 10.0 | 0 | 40 | % |
| EOS% | 1.5 | 10.0 | 0 | 30 | % |
| BAS% | 0.5 | 40.0 | 0 | 5 | % |
| RBC | 0.15 | 6.0 | 0 | 8 | 10 ⁶ /μL |
| HGB | 0.3 | 6.0 | 1 | 25 | g/dL |
| MCV | 1 | 6.0 | 50 | 120 | fL |
| RDWcv | 0.5 | 6.0 | 8 | 20 | % |
| PLT | 15 | 8.0 | 0 | 2000 | 10 ³ /μL |
| MPV | 0.8 | 10.0 | 5 | 20 | fL |

| Precision* | | | | | |
|------------|---------------------------|------|---------------------------------------|-------|---------------------|
| Parameter | Normal Mode Repeatability | | Normal Mode Reproducibility/Precision | | Unit |
| | SD | %CV | SD | %CV | |
| WBC | <0.18 | <2.7 | <0.20 | <3.4 | 10 ³ /μL |
| NEU% | <3.50 | | <3.50 | | % |
| LYM% | <3.10 | | <3.10 | | % |
| MON% | <2.00 | | <2.00 | | % |
| EOS% | <2.00 | | <2.00 | | % |
| BAS% | <0.50 | | <0.50 | | % |
| RBC | <0.11 | <1.7 | <0.13 | <2.0 | 10 ⁶ /μL |
| HGB | <0.20 | <2.0 | <0.22 | <2.4 | g/dL |
| MCV | <1.0 | <1.7 | <1.20 | <2.0 | fL |
| RDWcv | <0.4 | <2.5 | <0.45 | <3.0 | % |
| PLT | <23 | <6.0 | <27 | <7.0 | 10 ³ /μL |
| MPV | <0.45 | <8.7 | <0.50 | <10.0 | fL |

*System repeatability and reproducibility are defined as a standard deviation (SD) or as a coefficient of variation (CV), whichever is greater. Specifications are provided for primary and derived parameters only.

| Normal Mode Linearity | | | | | | |
|-----------------------|--|-----------------------------|-----------------------------|---------------------|----------------------|---------------------|
| Parameter | Coefficient of Determination (R ²) | Nonlinearity Absolute Error | Nonlinearity Relative Error | Linearity Range Low | Linearity Range High | Unit |
| WBC | >0.95 | <0.80 | <3.0% | 0.20 | 100.0 | 10 ³ /μL |
| RBC | >0.95 | <0.20 | <3.0% | 0.36 | 7.19 | 10 ⁶ /μL |
| HGB | >0.95 | <0.27 | <3.0% | 1.10 | 22.2 | g/dL |
| PLT | >0.95 | <35.0 | <3.0% | 15.0 | 1000 | 10 ³ /μL |

| Carryover | | |
|-----------|-------------------------|---------------------|
| Parameter | Allowable Carryover (%) | Unit |
| WBC | <1.0 | 10 ³ /μL |
| RBC | <0.5 | 10 ⁶ /μL |
| HGB | <0.8 | g/dL |
| PLT | <1.0 | 10 ³ /μL |

Learn more about the ADVIA 560 System or the entire family of scalable Siemens hematology systems.

Visit www.siemens.com/hematology, or contact your local Siemens sales representative.

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